FIG. 1

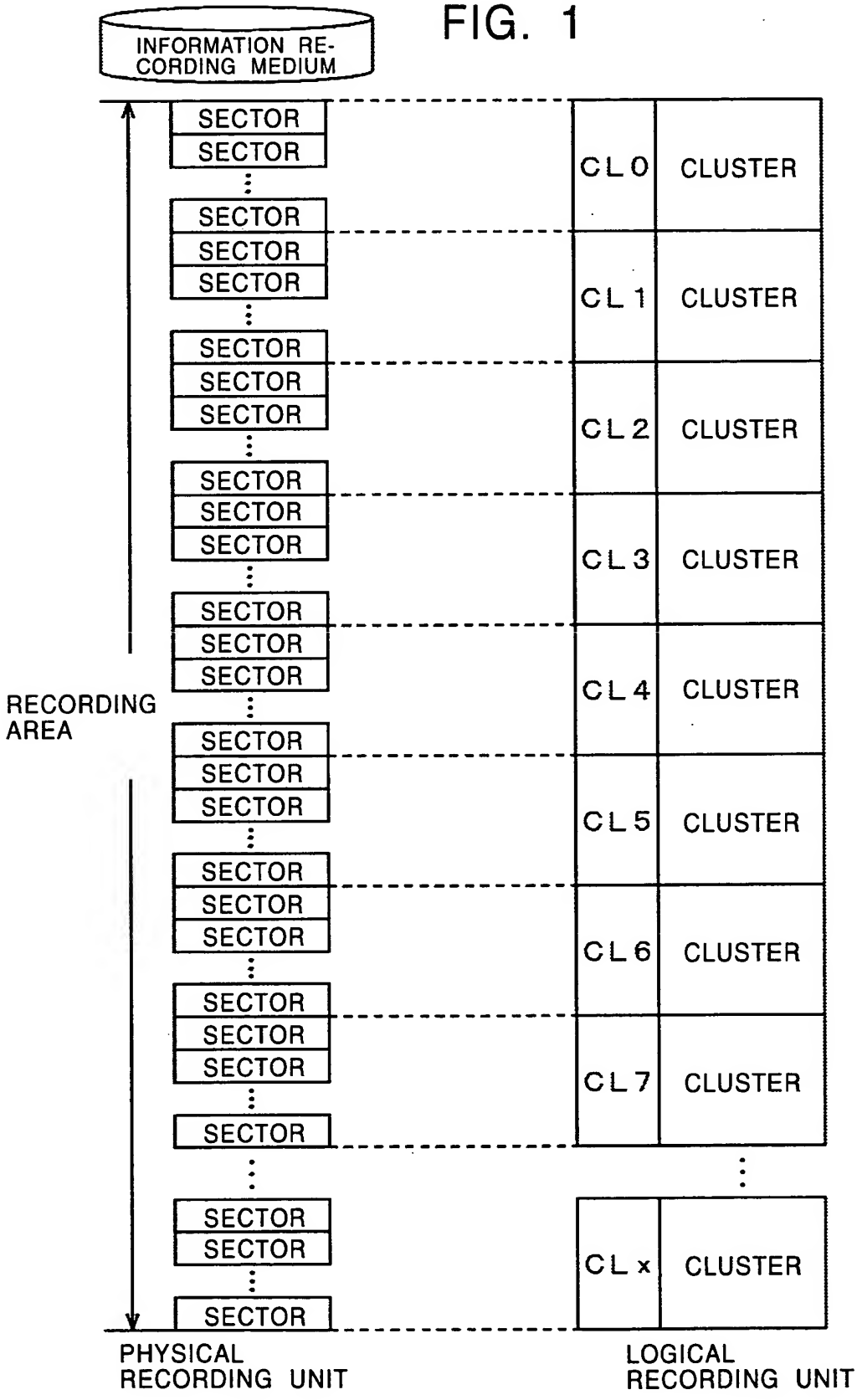

INFORMATION RECORDING MEDIUM
SECTOR
CL 0
CLUSTER
CL 1
CL 2
CL 3
CL 4
CL 5
CL 6
CL 7
CL x
RECORDING AREA
PHYSICAL RECORDING UNIT
LOGICAL RECORDING UNIT

FIG. 2

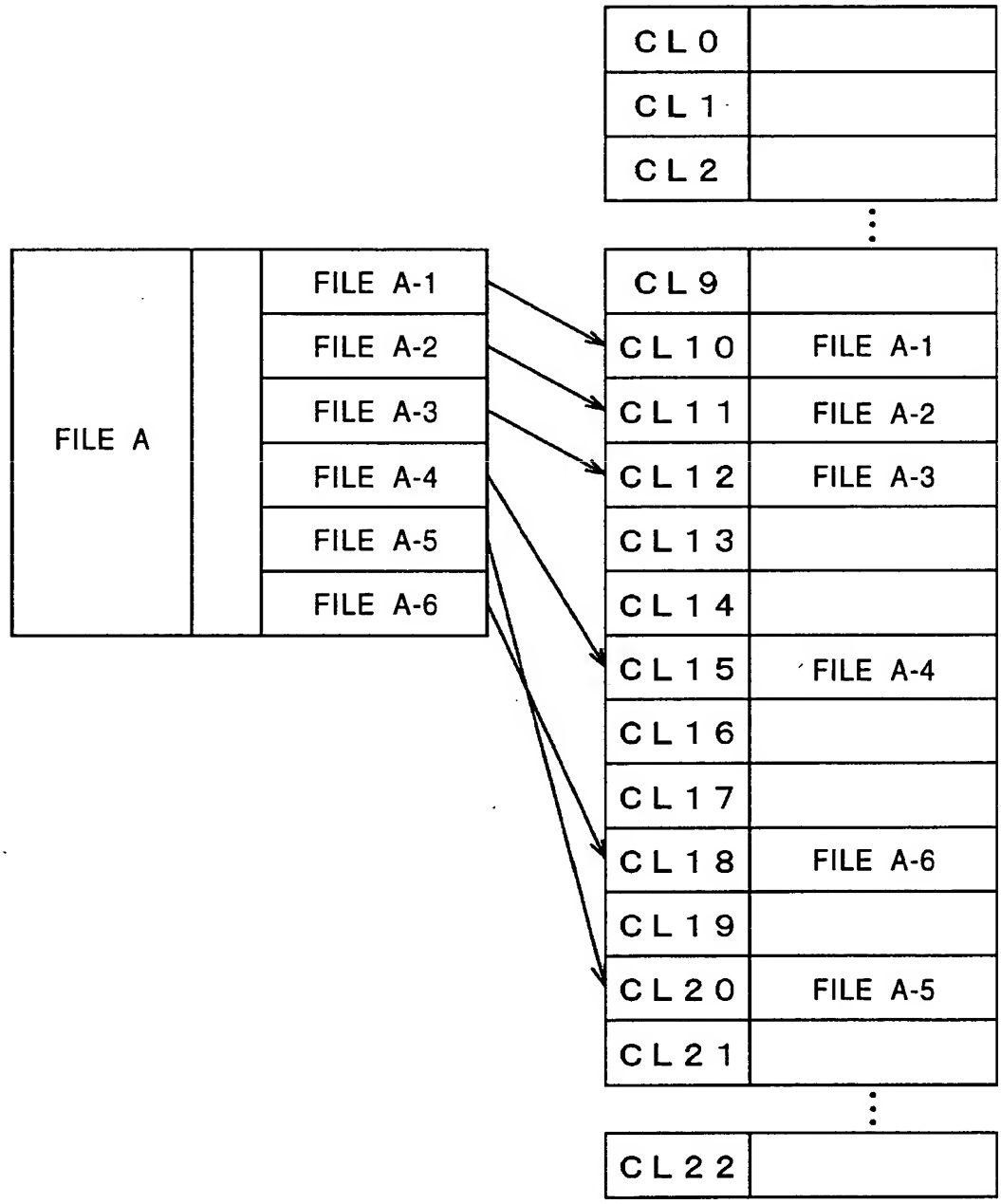

CL0
CL1
CL2
FILE A
FILE A-1
FILE A-2
FILE A-3
FILE A-4
FILE A-5
FILE A-6
CL9
CL10
FILE A-1
CL11
FILE A-2
CL12
FILE A-3
CL13
CL14
CL15
FILE A-4
CL16
CL17
CL18
FILE A-6
CL19
CL20
FILE A-5
CL21
CL22

FIG. 3

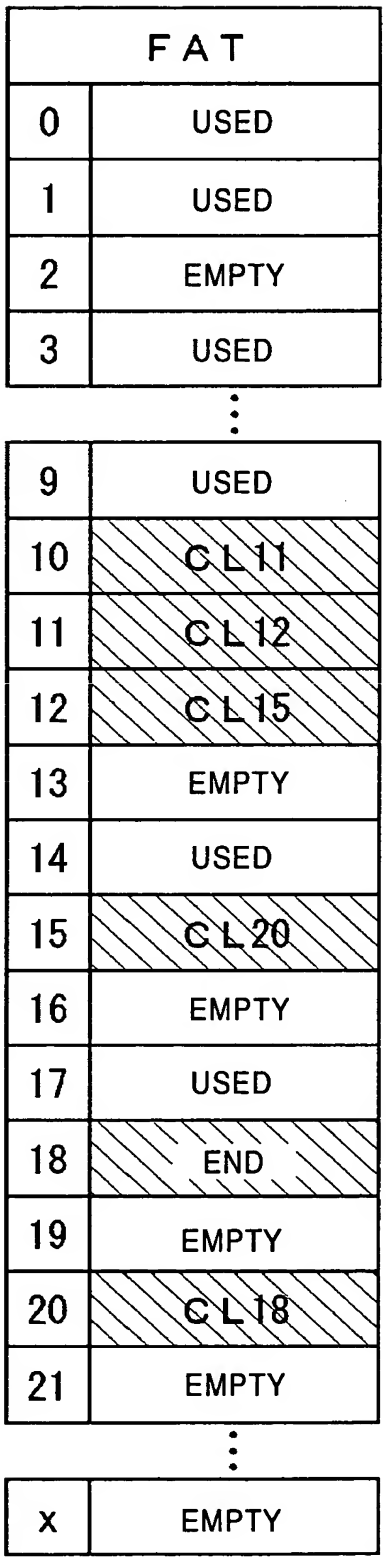

FAT
0
USED
1
USED
2
EMPTY
3
USED
9
USED
10
CL11
11
CL12
12
CL15
13
EMPTY
14
USED
15
CL20
16
EMPTY
17
USED
18
END
19
EMPTY
20
CL18
21
EMPTY
x
EMPTY

FIG. 4

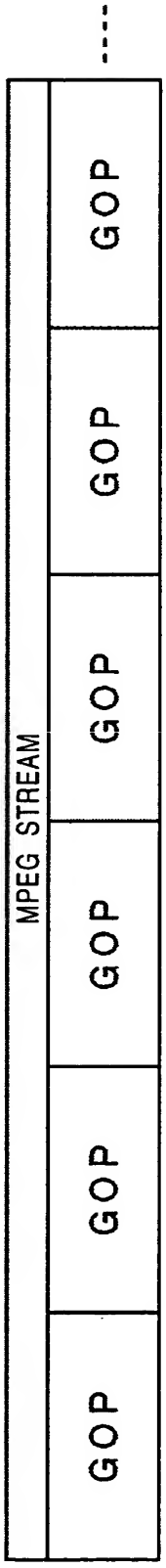


FIG. 5

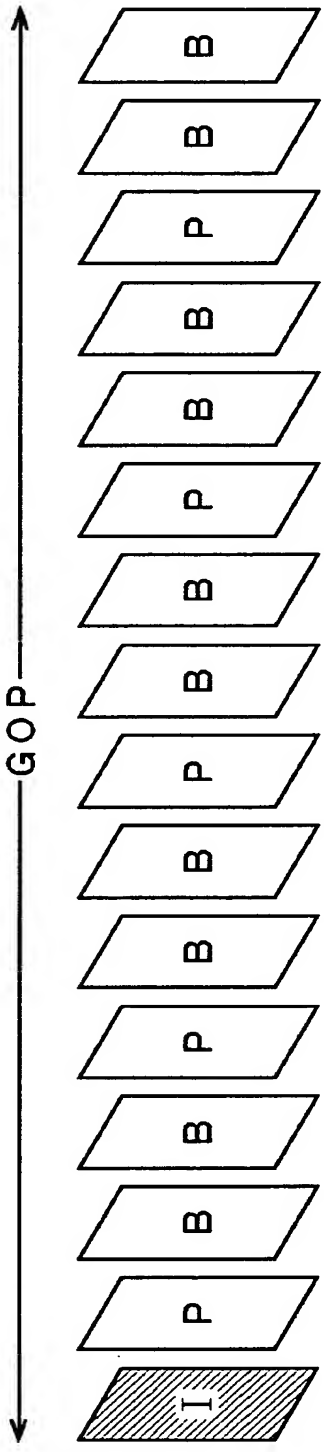
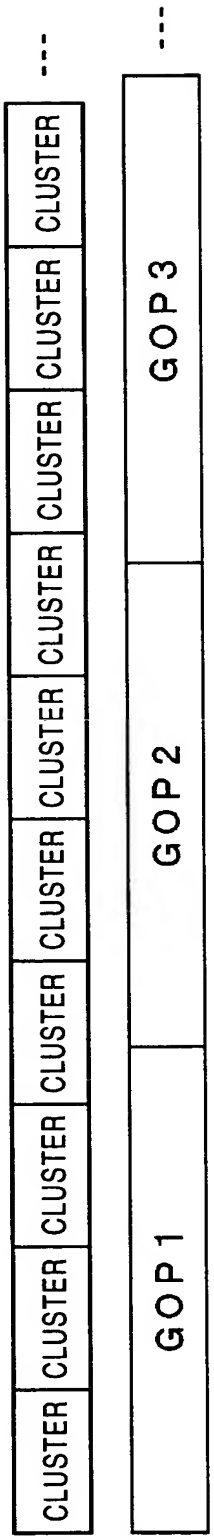


FIG. 6


1
2
3
4
5
6
7
8
9
10
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER

GOP 1
GOP 2
GOP 3

FIG. 7

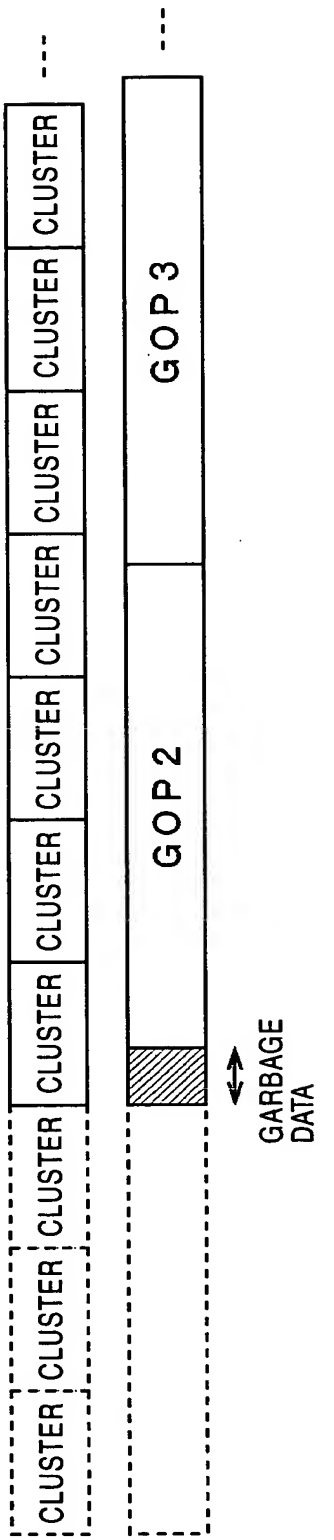

1
2
3
4
5
6
7
8
9
10
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
GOP 2
GOP 3
GARBAGE DATA

FIG. 8

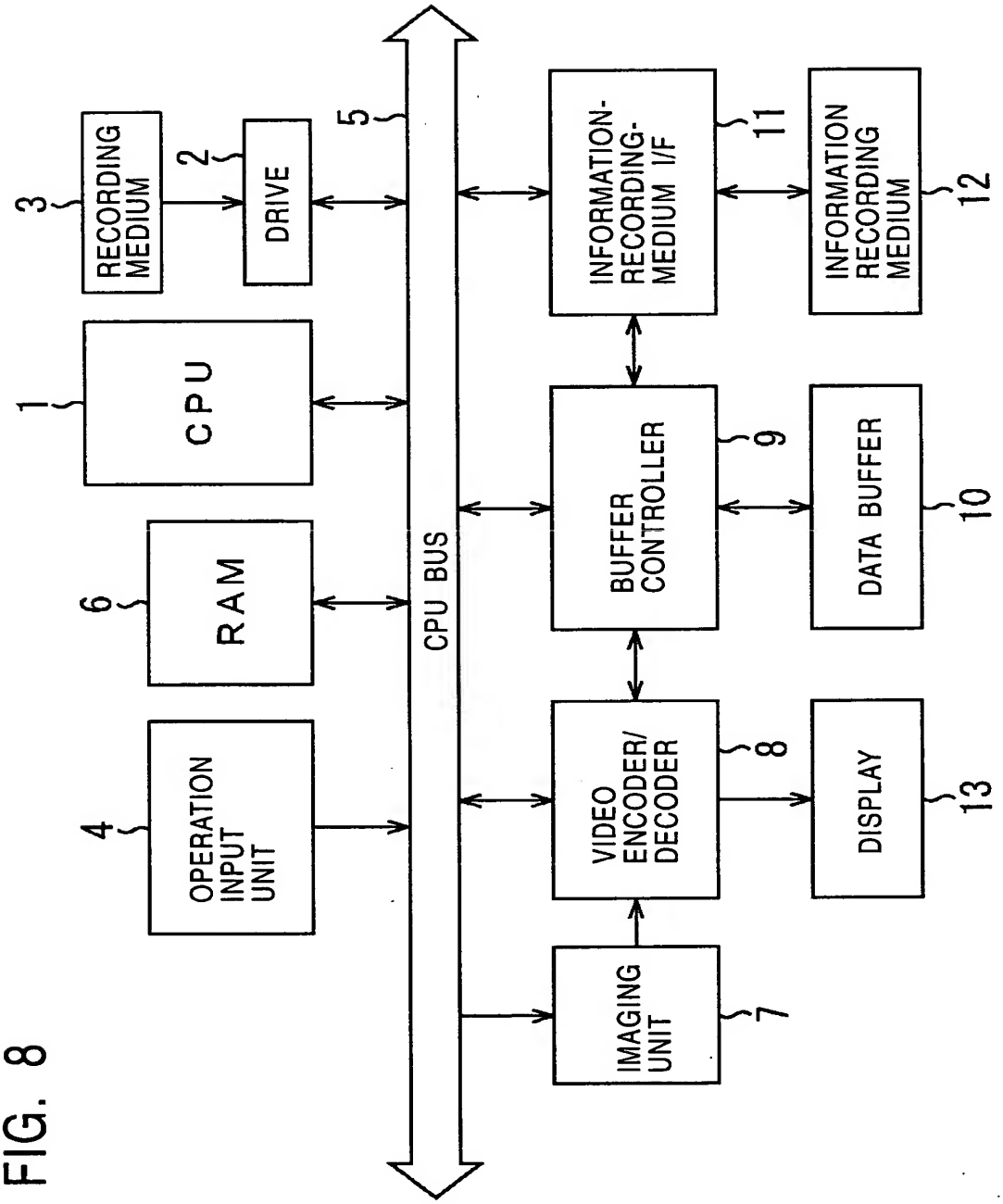

CPU BUS
1
CPU
2
DRIVE
3
RECORDING MEDIUM
4
OPERATION INPUT UNIT
5
6
RAM
7
IMAGING UNIT
8
VIDEO ENCODER/ DECODER
9
BUFFER CONTROLLER
10
DATA BUFFER
11
INFORMATION-RECORDING-MEDIUM I/F
12
INFORMATION RECORDING MEDIUM
13
DISPLAY

FIG. 9

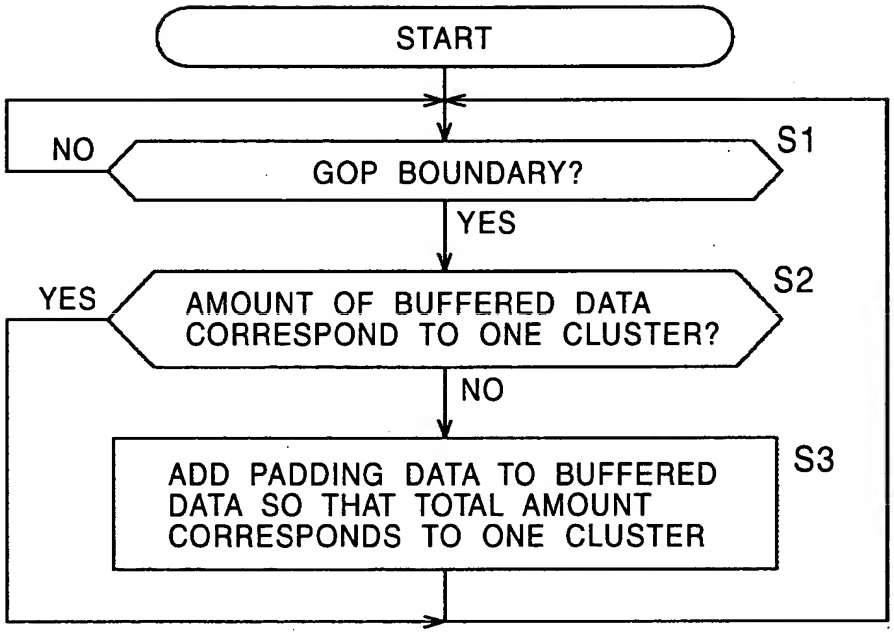

START
NO
GOP BOUNDARY?
S1
YES
YES
AMOUNT OF BUFFERED DATA CORRESPOND TO ONE CLUSTER?
S2
NO
ADD PADDING DATA TO BUFFERED DATA SO THAT TOTAL AMOUNT CORRESPONDS TO ONE CLUSTER
S3

FIG. 10

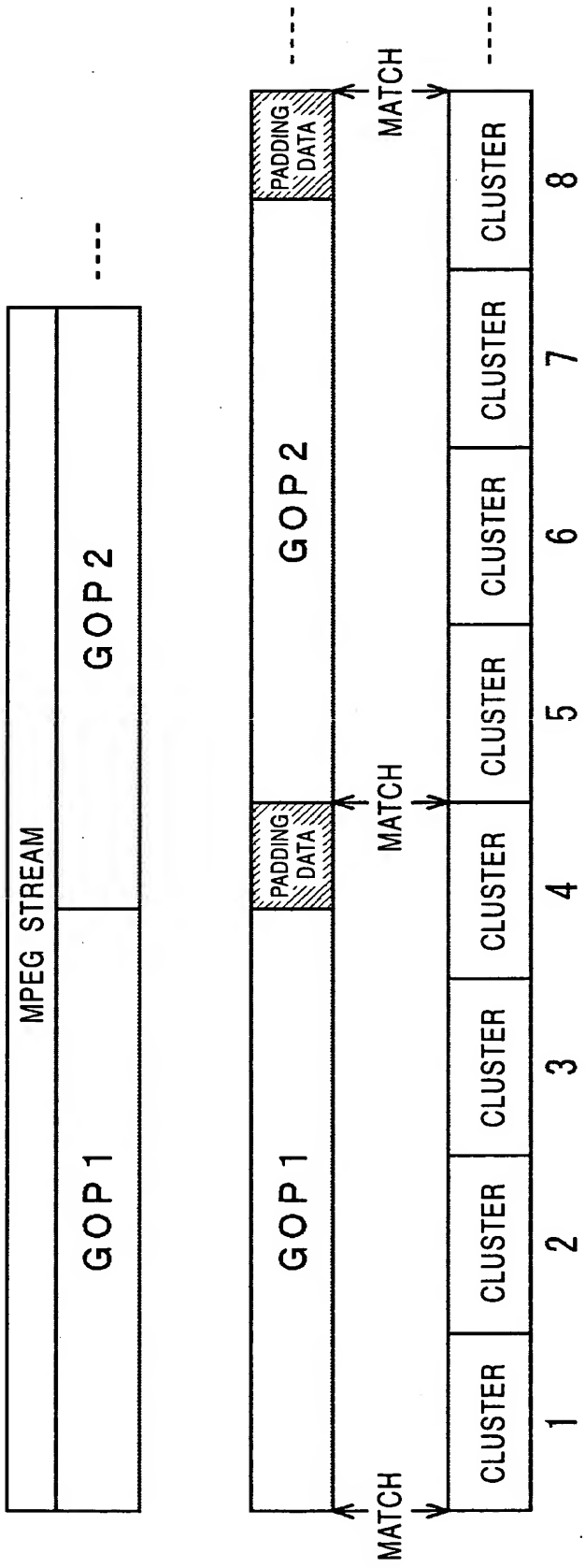
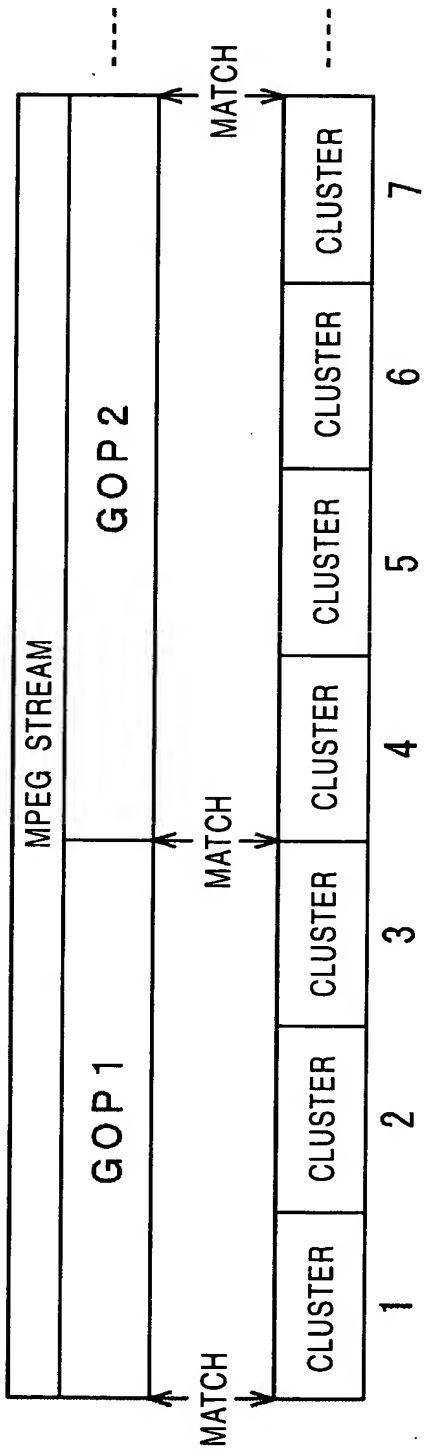


FIG. 11


MPEG STREAM
GOP1
GOP2
MATCH
MATCH
MATCH
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
CLUSTER
1
2
3
4
5
6
7